

SEQUENCE LISTING

<110> AKZO Nobel N.V.

<120> Lawsonia intracellularis 26 kD subunit vaccine

<130> 2003.023

<160> 2

<170> PatentIn version 3.2

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<211> 856

<212> DNA

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               Met Lys Lys Leu Leu Leu Leu Leu Ser Ile Leu
               1               5               10

ttt cta acc cca agt att acc ttg gcg gaa ggt aat act ttc aat gat      160
Phe Leu Thr Pro Ser Ile Thr Leu Ala Glu Gly Asn Thr Phe Asn Asp
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agt ttc aac aag gct aag cgc ata ctg caa gat gag gtg tat tac gac      208
Ser Phe Asn Lys Ala Lys Arg Ile Leu Gln Asp Glu Val Tyr Tyr Asp
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cac caa gtt aca cta tac tgc gga tat gaa tat gat gac caa aaa agg      256
His Gln Val Thr Leu Tyr Cys Gly Tyr Glu Tyr Asp Asp Gln Lys Arg
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ata tgt ctc cct gat gga ttt ata gca gag aaa cat caa aaa aga tca      304
Ile Cys Leu Pro Asp Gly Phe Ile Ala Glu Lys His Gln Lys Arg Ser
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Tyr Lys Ile Glu Trp Glu His Ser Val Pro Ala Glu Asn Phe Gly Arg
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gct ttt act gaa tgg cgc gaa ggt cat cct ctt tgt gta gat aat aaa      400
Ala Phe Thr Glu Trp Arg Glu Gly His Pro Leu Cys Val Asp Asn Lys
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ggt aaa agt ttc aaa gga cga aaa tgt gca gaa aaa gta aat aaa aca      448
Gly Lys Ser Phe Lys Gly Arg Lys Cys Ala Glu Lys Val Asn Lys Thr
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tat aga tat atg cag tct gat atg tac aat ttg ttt cca gca gtc ggg      496
Tyr Arg Tyr Met Gln Ser Asp Met Tyr Asn Leu Phe Pro Ala Val Gly
               125              130              135

tct gtc aat gct gcg aga agc aat aag caa tac tca gag tta ctt gga      544
Ser Val Asn Ala Ala Arg Ser Asn Lys Gln Tyr Ser Glu Leu Leu Gly
        140               145               150               155

gtt caa tct gct ttt gga acg tgt gag gca aaa ata gat ggg aat aga      592
Val Gln Ser Ala Phe Gly Thr Cys Glu Ala Lys Ile Asp Gly Asn Arg
               160               165              170

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ttc gaa cca ccg gat aga gct aaa ggt caa gta gcc cgt gct gct ctt 640
 Phe Glu Pro Pro Asp Arg Ala Lys Gly Gln Val Ala Arg Ala Ala Leu
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tat atg gat aaa gag tac aag gaa tac aat cta agt cgt cag caa aga 688
 Tyr Met Asp Lys Glu Tyr Lys Glu Tyr Asn Leu Ser Arg Gln Gln Arg
 190 195 200

aga ctt ttt gag gct tgg agt aat atg tat cca gtc gat gaa tgg gag 736
 Arg Leu Phe Glu Ala Trp Ser Asn Met Tyr Pro Val Asp Glu Trp Glu
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 Cys Thr Arg Ala Lys Arg Ile Glu Ser Ile Gln Gly Asn Glu Asn Ile
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Lys Arg Ile Leu Gln Asp Glu Val Tyr Tyr Asp His Gln Val Thr Leu
 35 40 45

Tyr Cys Gly Tyr Glu Tyr Asp Asp Gln Lys Arg Ile Cys Leu Pro Asp
 50 55 60

Gly Phe Ile Ala Glu Lys His Gln Lys Arg Ser Tyr Lys Ile Glu Trp
 65 70 75 80

Glu His Ser Val Pro Ala Glu Asn Phe Gly Arg Ala Phe Thr Glu Trp
 85 90 95

Arg Glu Gly His Pro Leu Cys Val Asp Asn Lys Gly Lys Ser Phe Lys
 100 105 110

Gly Arg Lys Cys Ala Glu Lys Val Asn Lys Thr Tyr Arg Tyr Met Gln
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Ser Asp Met Tyr Asn Leu Phe Pro Ala Val Gly Ser Val Asn Ala Ala
 130 135 140

Arg Ser Asn Lys Gln Tyr Ser Glu Leu Leu Gly Val Gln Ser Ala Phe

[illegible]